

## CLAIMS

I claim:

1. A weather analyzing and reporting station,  
comprising:

sensing means for sensing at least one characteristic  
of local weather conditions, and for generating a data  
signal responsive thereto;

a radio frequency receiver having controls for tuning  
said receiver to receive weather signals of variable  
selected frequencies relating to weather conditions  
prevailing at a selected remote location;

microprocessor means for processing said data signal  
and for predicting a potential weather condition responsive  
to said data signal, said microprocessor means including  
memory for storing base data relating to weather conditions  
generally; and

annunciating means for annunciating a predicted  
potential weather condition which correlates to a sensed  
weather characteristic, responsive to said microprocessor  
means predicting a potential weather condition and to said  
receiver receiving said weather signals.

2. The weather analyzing and reporting station  
according to claim 1, said sensing means having a first  
sensor for sensing temperature, a second sensor for sensing  
barometric pressure, a third sensor for sensing humidity,  
and a fourth sensor for sensing ambient light.

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3. The weather analyzing and reporting station according to claim 2, further comprising:

a receiver section having means for communicating with external cellular radio frequency communication systems;

a sensor section having said first sensor, said second sensor, said third sensor, and said fourth sensor; and

means for manually connecting and disconnecting said receiver section and said sensor section from one another,

one of said receiver section and said sensor section having enclosed therein said microprocessor means, and at least one of said receiver section and said sensor section having enclosed therein a battery for supplying power to said weather analyzing station, whereby said weather analyzing and reporting station is readily portable and easily utilized.

4. The weather analyzing and reporting station according to claim 3, further comprising a stand for holding and supporting said receiver section when said receiver section is disconnected from said sensor section.

5. The weather analyzing and reporting station according to claim 1, said sensing means having a first sensor for sensing temperature, a second sensor for sensing barometric pressure, a third sensor for sensing humidity, and a fourth sensor for sensing ambient static charge.

6. The weather analyzing and reporting station according to claim 5, further comprising:

a receiver section having means for communicating with external cellular radio frequency communication systems;

a sensor section having said first sensor, said second sensor, said third sensor, and said fourth sensor; and

means for manually connecting and disconnecting said receiver section and said sensor section from one another,

one of said receiver section and said sensor section having enclosed therein said microprocessor means, and at least one of said receiver section and said sensor section having enclosed therein a battery for supplying power to said weather analyzing station, whereby said weather analyzing and reporting station is readily portable and easily utilized.

7. The weather analyzing and reporting station according to claim 6, further comprising a stand for holding and supporting said receiver section when said receiver section is disconnected from said sensor section.

8. The weather analyzing and reporting station according to claim 1, said memory of said microprocessor having means for storing predetermined messages corresponding to selected weather conditions in memory, and said annunciating means having voice simulation means for annunciating said predetermined messages in the form of simulated voice of any selected one of a variety of languages.

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9. The weather analyzing and reporting station according to claim 8, further comprising cellular communications means for communicating with different international cellular protocols, whereby data corresponding to distant weather conditions is obtained by distant local weather condition broadcasts.

10. The weather analyzing and reporting station according to claim 1, further comprising simulated vocal communication means for issuing verbal prompts for controlling said weather analyzing and reporting station according to choice selections and for recognizing and responding to human verbal responses to initiate actions responsive to choice selections.

11. The weather analyzing and reporting station according to claim 8, further comprising means for recognizing verbal responses in any selected one of a variety of languages.

12. A weather analyzing and reporting station, comprising:

sensing means for sensing characteristic of local weather conditions, and for generating a data signal responsive thereto, including a first sensor for sensing temperature, a second sensor for sensing barometric pressure, a third sensor for sensing humidity, a fourth sensor for sensing ambient light, and a fifth sensor for sensing ambient static charge;

a radio frequency receiver having controls for tuning said receiver to receive weather signals of variable selected frequencies relating to weather conditions prevailing at a selected remote location, further including cellular communications means for communicating with different international cellular protocols, whereby data corresponding to distant weather conditions is obtained by distant local weather condition broadcasts;

microprocessor means for processing said data signal and for predicting a potential weather condition responsive to said data signal, said microprocessor means including memory for storing base data relating to weather conditions generally, said memory of said microprocessor having means for storing predetermined messages corresponding to selected weather conditions in memory, and said annunciating means having voice simulation means for annunciating said predetermined messages in the form of simulated voice of any selected one of a variety of languages;

annunciating means for annunciating a predicted potential weather condition which correlates to a sensed weather characteristic, responsive to said microprocessor means predicting a potential weather condition and to said receiver receiving said weather signals; and

simulated vocal communication means for issuing verbal prompts for controlling said weather analyzing and reporting station according to choice selections in a selected one of a variety of languages and for recognizing and responding to human verbal responses to initiate actions responsive to choice selections in any selected one of the variety of languages;

said weather analyzing and reporting station further being configured to include

a receiver section containing said radio frequency receiver, said microprocessor means, said annunciating means, and a first battery for supplying power to said receiver section, and

a sensor section containing said sensing means and a second battery for supplying power to said sensor section; and

means for manually connecting and disconnecting said receiver section and said sensor section from one another, whereby said weather analyzing and reporting station is readily portable and easily utilized.

13. The weather analyzing and reporting station according to claim 12, further comprising a stand for holding and supporting said receiver section when said receiver section is disconnected from said sensor section.